

和文の説明は裏面にあります。

## TTM-00B "BOARD TYPE" USER'S MANUAL DIGITAL TEMPERATURE CONTROLLER

Thank you for purchasing model TTM-00B  
"BOARD TYPE" Digital Temperature Controller.  
Please go through carefully this Instruction Manual  
and use the unit in proper manner.

### NOTICE/WARNING BEFORE OPERATION USE

- When having the purchased controller at hand, please be sure that its unit is a correct model (See the following "Model Configuration").
- The following symbol marks provide to prevent incident or damage. Kindly refer to the details of the WARNING/CAUTION when using for the first time.
- Another copy of the user's manual "Advanced Version" is provided at customer's request.

**WARNING**  
Due to mishandling,  
serious dangers may occur to  
the operator such as death,  
electrocution and a skin burn.

**CAUTION**  
Owing to mishandling, it may  
cause some damage to  
the unit or the operator  
getting slight injury.

**CAUTION**  
For prevention of its malfunction, do not push the front  
key with sharp points.  
Spare terminal must not be used for other purposes.

**WARNING**  
Make sure the correct wiring connection before turning on electricity.  
Mis-wiring may cause malfunction of the unit and fire.  
Never modify the unit to prevent damage or incident such as  
malfunction and fire etc.

- Please put this user's manual aside for your reference, when operating the unit.
- Copy or reprint of this manual, wholly or partially, is not allowed.
- The contents of this manual may change without notice in future.

### ACCESSORY & CONFIGURATION

- Please be sure that the unit enclosed in packing carton is a right model before using.
- Kindly check the following accessory being contained in that carton box.
  - This user's manual : 1 copy
  - Control board : 1 pce
  - Display board : 1 pce
  - Connection cable (30 mm length) : 1 pce
- Model Configuration

TTM - 00 B - - A

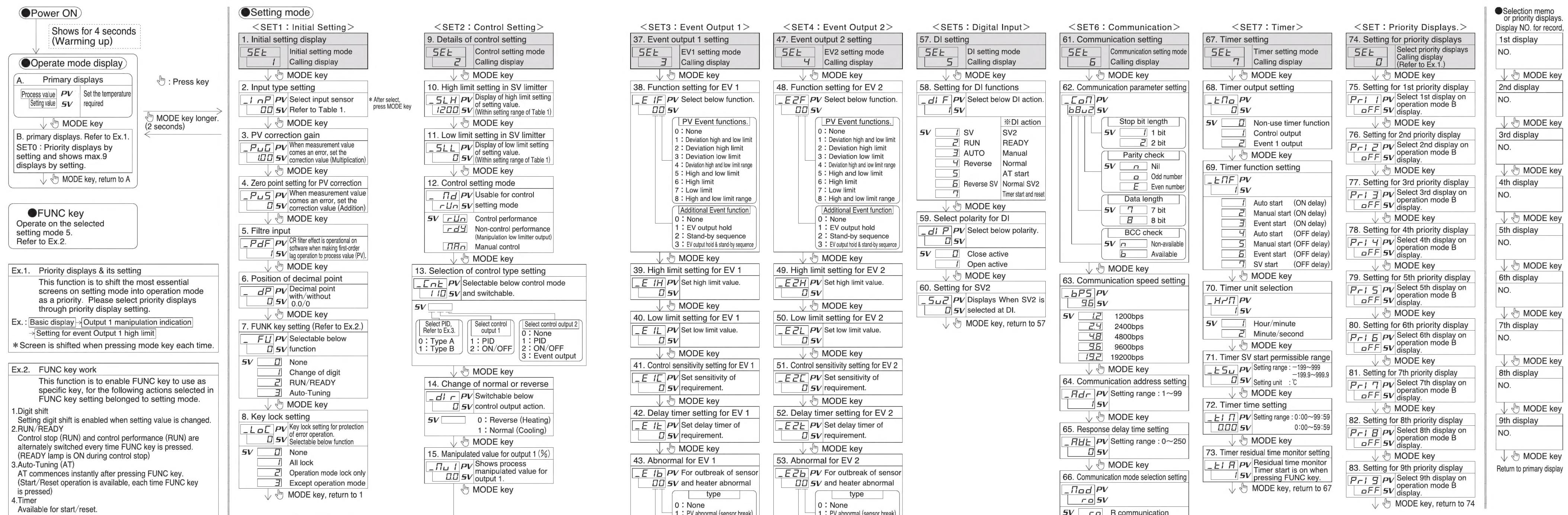
OUTPUT 1	CODE	OPTION	CODE
Relay contact	R	Event2 (Relay contact output)	B
SSR drive voltage	P	Output 2 (SSR drive voltage)	P
		CT input	D
		DI (Digital input)	E
		Communication RS-485	M

### SPECIFICATIONS

Power Supply Voltage	100 to 240V AC, 50/60Hz
Power Consumption	Below 10 VA
Memory Element	EEPROM
Input of Sensor	Thermocouple/R.T.D. (Change by front key)
Control Output	Relay contact, SSR drive voltage
Control Method	Two kinds of PID, ON/OFF
Operation Environment	0 to 50°C, 20 to 90%RH (Avoid making dew)
Storage Environment	-25 to 70°C, 5 to 95%RH (Avoid making dew)
Weight	Less than 90g
Location of the Unit Setting	Away from the followings. <ul style="list-style-type: none"> <li>Gas of corrosion, dust and oily smoke.</li> <li>The generator of electric noise.</li> <li>The influence of electromagnetic field.</li> <li>Mechanical vibration and shock.</li> <li>The direct sunshine.</li> </ul>
Installation condition	Installation category II

### OPERATION FLOW AND SETTING MENU

Setting display shows the existence of option.



● Selection memo  
or priority displays.  
Display NO. for record.  
1st display  
NO.  
2nd display  
NO.  
3rd display  
NO.  
4th display  
NO.  
5th display  
NO.  
6th display  
NO.  
7th display  
NO.  
8th display  
NO.  
Return to primary display

